

2007 Tribal Nations Children's Environmental Health Summit

August 22-23, 2007
Denver, Colorado



Sponsored by:
U.S. Environmental Protection Agency and
Pediatric Environmental Health Specialty Units (PEHSUs)
Region 6 (AR, LA, NM, OK, & TX), Region 8 (CO, MT, ND, SD, UT, and WY),
and Region 10 (AK, ID, OR, and WA)

In Partnership with:
Agency for Toxic Substances and Disease Registry (ATSDR) and
Indian Health Service (IHS)

For Summit and registration information, visit
<http://epa.gov/region8/humanhealth/children/2007summit.html>



Background

Tribal populations have unique environmental exposures given their cultural, ceremonial, and lifestyle practices. Children in Tribal Nations have different exposures from their adult counterparts which impart special risks during vulnerable developmental periods. Linking the environment to disease and disease processes is poorly studied and poorly understood. Furthermore, formal training in children's environmental health (CEH) is limited, if even available. Health care providers at all educational levels should have an understanding of these important issues and be able to practically apply basic CEH principles and consider the environment as a component of diseases seen in children.

Children are more vulnerable to environmental exposures than adults:

- *Children's systems are still developing.* Their bodies and

internal organs undergo rapid growth and exposure to toxic substances in critical periods can result in impaired development and compromised immune systems. Infant's and children's immature bodies are less able to detoxify substances.

- *Children are exposed to more environmental threats.*

Compared to adults, they eat proportionately more food, drink more fluids, breathe more air, and play outside more. They ingest more pollutants per pound of body weight than adults.

- *Children are least able to protect themselves.* While they have a natural curiosity and tendency to explore with greater fearlessness, children are not able to make informed decisions as to their activities and, as a consequence, put themselves at greater health risk.

- *Children have a longer life expectancy.* Children have more time to develop chronic diseases that might be triggered by early environmental exposures. Prenatal, infancy, and early

childhood exposure to certain carcinogens or toxicants may impart greater risk than the same exposures experienced later in life.

- *Children behave differently than adults.* Children have special risk of exposure to hazardous substances from waste sites or accidental spills and of suffering adverse health effects from the exposure. Children play in mud, splash in creeks, crawl on floors, roll in dirt—all activities that result in a higher risk of exposure to hazardous substances that are present. Their live and play closer to the ground where they breathe dust and heavy vapors that are close to the ground. Natural hand-to-mouth behaviors result in accidental ingestion of hazardous substances.

*Native American proverb:
"We do not inherit the earth
from our ancestors, we
borrow it from our children"*

Summit Goals

1. Increase the ability of health, environmental, and education professionals to identify, prevent, and reduce environmental health threats to children in Tribal lands.
2. Share information, "best practices", resources, and emerging science regarding protection of children in Tribal lands from environmental hazards.

3. Encourage coordination and information sharing across government agencies, health organizations, health care providers, educators, and the general public in addressing Tribal children's environmental health issues.

4. Provide public health professionals with an opportunity to identify/implement effective children's health strategies.

Who Should Attend?

- Tribal Health Directors and staff
- Tribal Environmental Directors and staff,
- Tribal Health Care Providers,
- Day Care Providers,
- School Administrators, Teachers,
- Facility Managers,
- School nurses,
- Child/Youth organizations,
- Parents, and
- The General Public

Continuing Education Credits

The Centers for Disease Control and Prevention is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The Centers for Disease Control and Prevention designates this educational activity for a maximum of **11.75** category 1 credits toward the **AMA Physician's Recognition Award**. Each physician should claim only those credits that he/she actually spent in the activity.

This activity for **11.75** contact hours is provided by the Centers for Disease Control and Prevention, which is accredited as a provider of continuing education in **nursing** by the

American Nurses Credentialing Center's Commission on Accreditations.

The Centers for Disease Control and Prevention is a designated provider of continuing education contact hours (CECH) in health education by the National Commission for Health Education Credentialing, Inc. This program is a designated event for the **CHES** to receive **12.0** Category I contact hours in health education, CDC provider number GA0082

The CDC has been reviewed and approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 8405 Greensboro Drive, Suite 800, McLean, VA 22102. The CDC has awarded **1.15** of **CEU's** to participants who successfully complete this program.

Upon completion of this Summit, participants should be able to:

1. Coordinate and share information across government agencies, health organizations, health care providers, educators, and the general public in addressing children's environmental health issues.
2. Identify, prevent, and reduce environmental health threats to children.
3. Describe "best practices", and emerging science regarding the protection of children's health from environmental hazards.
4. Identify resources available to health care providers related to protecting children's health from environmental hazards.

Location

The 2007 Tribal Nations Children's Environmental Health Summit is being held at the [Doubletree Hotel Denver](#) located at 3203 Quebec Street, Denver, Colorado 80207, Tel: (303) 321-3333, Fax: (303) 329-5233.

Transportation and Directions to/from the Airport to the Hotel

The hotel, centrally located just south of I-70, provides scheduled, complimentary shuttle service to and from *Denver International Airport (DIA)*, as well as free parking at the hotel. The hotel is 16 miles from DIA. Drive time is 20 – 30 minutes.

The complimentary shuttle leaves from DIA every 30 minutes (15 min before and 15 min after the hour). The shuttle can be accessed on level 5 of the main terminal on isle 3.

From Denver International Airport exit airport via Pena Blvd to I-70 West. Exit I-70 to Quebec Street South (exit 278), continue on Quebec Street to Martin Luther King Blvd. Hotel is on the North West corner.

From Downtown Denver - Take Stout Street to Martin Luther King Blvd to the corner of Quebec and Martin Luther King Blvd.

AGENDA

Day 1: August 22, 2007

Time	Topic
7:30 am – 8:00 am	Continental Breakfast
8:00 am – 8:30 am	Welcome & Opening Prayer
8:30 am – 9:30 am	Keynote: Tribal Children’s Environmental Health 101 <i>A discussion of tribal children’s special vulnerabilities to environmental contaminants, the environmental history and common contaminants, obesity and the built environment</i> Mark Anderson, MD; Staff Pediatrician, Denver Health and Hospitals; Director, Rocky Mountain Region (8) Pediatric Environmental Health Specialty Unit (PEHSU)
9:30 am – 9:45 am	Morning Break
9:45 am – 10:30 am	Overview of Childhood Asthma and Health Prevention <i>Diagnosis and treatment of childhood asthma, environmental triggers, and the environmental health history</i> Catherine Karr, MD, PhD; University of Washington Department of Pediatrics/Environmental & Occupational Health Sciences Director and Principal Investigator, Northwest PEHSU (Region 10)
10:30 – 11:15 am	Native Asthma Intervention and Reduction Project (Native AIR) <i>(for additional information about this project and examples of interventions:</i> http://nativeasthma.org/ Michael P. Vogel, EdD; Montana State University Extension Service Housing and Environmental Quality Director
11:15 am – 12:15 pm	Other Indoor Environmental Quality Issues <i>Presentation of other Indoor Air Quality issues such as mold, carbon monoxide, radon, wood stoves</i> Johna Boulafentis; Environmental Outreach Specialist; Nez Perce Tribe Environmental Restoration and Waste Management Program
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	Other Indoor Environmental Quality Issues (continued) Indoor Air Quality in Schools Mansel A. Nelson and Mathew Zierenberg; Environmental Education Outreach Program, Institute for Tribal Environmental Professionals, Northern Arizona University
12:15 pm – 1:30 pm	Keynote: Working Lunch--Effective Way for Tribes to Interact with State and Federal Governments on Children’s Environmental Health issues Ronald A. Reid, PhD; Native American Liaison, New Mexico Department of Health
1:30 pm – 2:30 pm	Methamphetamine in Indian Country <i>Focus on child’s environmental health impacts of living in a methamphetamine home.</i> Speaker: Jefferson Keel; Lt. Governor, the Chickasaw Nation, and First Vice President of the National Congress of American Indians and Tribal Consultation Advisory Committee (TCAC)
2:30 pm – 3:00 pm	Afternoon Break
3:00 pm – 3:30 pm	Are you sure your drinking water is safe? Michael P. Vogel, EdD; MSU Extension Service Housing and EQ Director

Day 1: August 22, 2007 (continued)

3:30 pm – 4:00 pm	Protecting Public Health in Indian Country: Fish Consumption Issues William Lambert, PhD; Associate Professor, Department of Public Health & Preventive Medicine, Oregon Health & Science University
4:00 pm – 5:00 pm	Successful Programmatic Interventions Margo Young, Region 10 EPA CEH Coordinator, <i>Community Action for a Renewed Environment (CARE) Program Overview</i> Allyson Kelley, MPH, CHES, Native American Studies Project Director Kym Cravatt, Cherokee Nation Cancer Program Director
5:00 pm	Adjourn

Day 2: August 23, 2007

Time	Topic
7:30 am – 8:00 am	Networking Continental Breakfast
8:00 am – 8:30 am	Pediatric Environmental Health Specialty Units (PEHSUs) <i>Overview of the PEHSU program as a specific resource; the interface of the PEHSU program and the EPA/ATSDR</i> Paula Wilborne-Davis, MPH, CHESAOEC (National PEHSU Program Coordinator) Larry Lowry, PhD, Region 6 PEHSU (Region 6 PEHSU and case studies)
8:30 am – 9:15 am	Tribal Children's Research and Health Promotion <i>Overview of the National Children's Study (NCS)</i> Edward B. Clark, MD, Principal Investigator, National Children's Study, University of Utah NCS Vanguard Center
9:15 am – 10:15 am	EPA Tribal Schools Initiative <i>Multi-media effort to ensure protection of the tribal school's environment and of children's health</i> Liz Rogers, EPA Region 8 Compliance Assistance
10:15 am – 10:30 am	Morning Break
10:30 am – 11:15 am	Environmental Exposures during Pregnancy Edward Master, RN; EPA Region 5
11:15 am – 12:30 pm	Bringing it all together: Next Steps for Tribal Nations CEH <i>Charge to attendees to continue the discussion begun at the CEH conference and a vision for next steps.</i> Randolph G. Runs After, MPH; Tribal Environmental Health Specialist, Cheyenne River Sioux Tribe
12:30 pm	Adjourn

Planning and Steering Committee:

Alicia Aalto: Region 8 Environmental Protection Agency Children's Environmental Health Coordinator
Mark Anderson, MD (Committee Lead): Region 8 Pediatric Environmental Health Specialty Unit
Nancy Beaudet, MS, CIH: Region 10 Pediatric Environmental Health Specialty Unit
Lena Belcourt: Health Policy Analyst, Belcourt Law, staff to Northern Arapahoe Tribe and Chippewa Cree Tribe
Carole Anne Heart: Executive Director, Aberdeen Area Tribal Chairmen's Health Board
Linda Holt: Council Member of the Suquamish Tribe, Chairwoman, Northwest Portland Area Indian Health Board, and Tribal Council Advisory Committee Co-Chair
Jefferson Keel: Lieutenant Governor of the Chickasaw Nation, First Vice President of the National Congress of American Indians, and Tribal Consultation Advisory Committee Chair
Larry Lowry, PhD: Region 6 Pediatric Environmental Health Specialty Unit
Tam Lutz: Northwest Portland Area Indian Health Board, Indian Community Health Profile Project Director
Ronald A. Reid, PhD: Isleta Pueblo, Native American Liaison, DOH, Office of Policy and Multicultural Health, New Mexico Department of Health
Rick Robinson: Region 10 Agency for Toxic Substances and Disease Registry
Randolph G. Runs After: Tribal Environment Health Specialist, Cheyenne River Sioux Tribe
Paula Selzer: Region 6 Environmental Protection Agency Children's Environmental Health Coordinator
Margo Young: Region 10 Environmental Protection Agency Children's Environmental Health Coordinator

Presenters:

Mark Anderson MD

Dr. Anderson is a staff physician and team leader for the Webb Pediatrics Clinic on the Denver Health Medical Center campus in Denver, Colorado. He directs the Rocky Mountain Region Pediatric Environmental Health Specialty Unit in cooperation with the Rocky Mountain Poison and Drug Center and National Jewish Medical and Research Center. He is currently an Associate Professor of Pediatrics, University of Colorado Denver and Health Sciences Center.

Johna Boulafentis BA

Ms. Boulafentis has worked for the Nez Perce Tribe Environmental Restoration and Waste Management (ERWM) Program's Air Quality office for nearly three years. As an Environmental Outreach Specialist, she provides education and outreach about the Federal Air Rules for Reservations, indoor air quality, the health effects associated with and alternatives to burning on the Nez Perce Reservation. Prior to her employment with the Nez Perce Tribe, she served as a substitute teacher for public schools and coordinated an educational camp and mentorship program for multiethnic youth. She graduated from Dickinson College in Carlisle, Pennsylvania with a B.A. in anthropology and minors in sociology and history.

Edward B. Clark MD

Dr. Clark is the Wilma T. Gibson Presidential Professor and Chair for the Department of Pediatrics in the School of Medicine at the University and Medical Director of Primary Children's Medical Center. He is the principal investigator for the National Children's Study Vanguard Center in Salt Lake County, Utah.

Kym Cravatt MPH CHES

Kym Cravatt is currently the director of the Cherokee Nation Cancer Programs where she serves as the program director for the Breast and Cervical Cancer Early Detection Program, Comprehensive Cancer Control Program and the Cancer Registry. Kym is a 2002 fellow of the Native Researcher's Cancer Control Program at the Oregon Health Sciences University. She received her bachelor of science degree in Health and Sport Sciences from the University of Oklahoma and master of public health degree from the University of Oklahoma College of Public Health. She is a certified health education specialist and has nearly 10 years of experience working in and developing public health programs.

Catherine J. Karr MD PhD

Dr. Karr is an Assistant Professor of Pediatrics as well as Environmental and Occupational Health Sciences at the University of Washington. She is the Director of the NW Pediatric Environmental Health Specialty Unit.

Jefferson Keel MS

As Lieutenant Governor of the Chickasaw Nation, and First Vice President of the National Congress of American Indians, Mr. Keel manages the Nation's divisions of aging services, heritage and cultural preservation, museums, facilities management, all service delivery programs, policies and standardization, and the gaming commission involving over 1400 employees. He is also the Chair of the Tribal Council Advisory Committee to the CDC/ATSDR.

Allyson Kelley MPH CHES

Currently serving as director of the Montana Indian Country CARE project and Co-PI of the National Science Foundation STEP program, Ms. Kelley teaches and consults on Environmental Health issues for the Rocky Mountain College.

William Lambert PhD

Dr. Lambert is the Associate Director of the Center for Healthy Communities at Oregon Health & Science University. He is an Associate Professor in the Department of Public Health and Preventive Medicine, working in several fields including environmental epidemiology, exposure assessment, quantitative risk assessment, and cancer control and prevention.

Larry K. Lowry PhD

Dr. Lowry is an Associate Professor in Occupational Health Sciences and is Co-Director of the Southwest Center for Pediatric Environmental Health (the Region 6 PEHSU) in Tyler, Texas. A chemist with graduate occupational health training, Dr. Lowry is widely published in multiple formats and topics in environmental health.

Edward Master RN MPH

Mr. Master is the Children's Environmental Health and Environmental Education Regional Coordinator for EPA region 5 in Chicago, Illinois. He has several publications and a history of work and collaboration across multiple governmental and non-governmental disciplines in children's environmental health.

Mansel A. Nelson BS

Mr. Nelson is the program manager for the Environmental Education Outreach Program – Institute for Tribal Environmental Professionals at Northern Arizona University. His work focuses on outreach to Native American students, their schools and communities, and aims to increase awareness of how science and technology can be applied to local community environmental issues, including water issues. He also provides professional assistance to tribal professionals on water education and outreach.

Ron Andrew Reid PhD

Dr. Reid works as a Native American Liaison where he develops, directs, leads and implements the Native American Liaison program in accordance with the Government-to-Government Policy Agreement and resultant Tribal Consultation Protocol for the New Mexico State Department of Health. The policy for this position is to conduct meaningful tribal consultation between the State of New Mexico and the Governors or Presidents of all 22 Indian Nations in the state related to the 200 Department of Health programs.

Liz Rogers BS

Ms. Rogers has been with EPA Region 8 since 1998, and has been involved with a variety of national policy development issues. Most recently she has been part of a national workgroup to address environmental issues at schools in Indian country. This has been an area of emphasis for the EPA's Office of Enforcement and Compliance Assistance since 2005, and will continue to be a priority area through at least 2010.

Randolph Runs After MPH

Working as the Tribal Environmental Health Specialist for the Cheyenne River Sioux Tribe, Randolph Runs After has been involved in both the Steering and Planning committees for the Tribal Nations CEH Summit. He is also a representative to the Tribal Council Advisory Committee to the CDC.

Michael P. Vogel EdD

Dr. Vogel has extensive experience in program development for Tribes in several environmental health areas, including indoor air quality. He is currently director of the Housing and Environmental Health Program at Montana State University Extension service in Bozeman, Montana.

Paula Wilborne-Davis MPH CHES

Working as a Health Educator/Program Coordinator for the Association of Occupational and Environmental Clinics in Washington, D.C., Ms. Wilborne-Davis has extensive experience with the national PEHSU program and its educational and clinical efforts.

Margo Young MPA

Currently working as the Children's Environmental Health and Environmental Education Regional Coordinator in EPA Region 10, Ms. Young has also served on the Planning/Steering committees for the Tribal Nations CEH Summit.

Matthew A. Zierenberg BS

Mr. Zierenberg works as a program coordinator for the Environmental Education Outreach Program and the Institute for Tribal Environmental Professionals at Northern Arizona University in Flagstaff, AZ. He has experience in working with diverse populations of students and has been working to develop new and innovative ways to introduce students to environmental and experiential education. He also has extensive experience working with K-12 students and educators in the fields of biological science, astronomy, geology and outdoor education based curricula.

Special thanks to Claire Gregorich of the Rocky Mountain Poison and Drug Center for help in coordinating the multiple duties required to host this conference. Thanks also to Claire Gregorich, Teresa Walker and Rebecca Birdsong, Paula Wilborne-Davis, and Leslie Campbell, for receiving and processing numerous applications for travel and registration scholarships which made possible the participation of so many Tribal participants.

The Pediatric Environmental Health Specialty Units (PEHSUs) exist in each region of the United States and form a national network of environmental medicine specialists devoted to the health and environmental well-being of children. Each site is associated with an accredited university or academic medicine center and joins the expertise of adult occupational medicine, pediatric medicine, toxicology, industrial hygiene, and educational expertise. US Government partners include the US Environmental Protection Agency (EPA) and the Agency for Toxic Substances and Disease Registry (ATSDR), among others. The PEHSU model has been replicated in Canada, Argentina, Spain, and Mexico. The network is administrated by the Association of Occupational and Environmental Clinics (AOEC) in Washington, D.C.

The 2007 Tribal Nations Children's Environmental Health Summit was made possible with support from EPA Regions 6, 8, and 10, the PEHSUs from Regions 6, 8 and 10, the EPA HQ Offices of Children's Health Protection and Enforcement, Compliance and Assistance (Washington, DC), the Agency for Toxic Substances and Disease Registry (ATSDR), and the Association of Occupational and Environmental Clinics (AOEC).